

AMENDMENTS TO THE CLAIMS

Please amend claims as set forth below:

1-123 (Cancelled).

124. **(Currently amended)** A method for fabricating an orthopedic implant prosthesis bearing, comprising the steps of:

pre-annealing a polyethylene preform at a temperature greater than ambient temperature and less than the decomposition temperature of the polyethylene for a period of time greater than ~~[[about]]~~ 30 minutes;

irradiating the polyethylene preform to crosslink the polyethylene preform; and
quenching residual free radicals in the polyethylene preform.

125. **(Previously presented)** The method of claim 124, further comprising the steps of:

cooling the preform after the quenching step to a temperature below the melting temperature of the polyethylene; and

forming the preform into a prosthetic bearing.

126. **(Previously presented)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

pre-annealing an ultrahigh molecular weight polyethylene preform;

irradiating the ultrahigh molecular weight polyethylene preform to crosslink the ultrahigh molecular weight polyethylene preform;

quenching residual free radicals in the ultrahigh molecular weight polyethylene preform subsequent to the irradiating step; and

forming the ultrahigh molecular weight polyethylene preform into a prosthetic bearing.

127. (Previously presented) A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

pre-annealing a polyethylene preform;

irradiating the polyethylene preform to crosslink the polyethylene preform;

quenching residual free radicals in the polyethylene preform subsequent to the irradiating step; and

forming the polyethylene preform into a prosthetic bearing.

128. (Withdrawn) A method for fabricating an orthopedic implant prosthesis bearing, comprising the steps of:

melting a polyethylene preform for a period of time greater than about 30 minutes;

irradiating the polyethylene preform to crosslink the polyethylene preform; and

quenching residual free radicals in the polyethylene preform.

129. (Withdrawn) The method of claim 128, further comprising the steps of:
cooling the preform after the quenching step to a temperature below the melting temperature of the polyethylene; and

forming the preform into a prosthetic bearing.

130. **(Withdrawn)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

melting an ultrahigh molecular weight polyethylene preform;

irradiating the ultrahigh molecular weight polyethylene preform to crosslink the ultrahigh molecular weight polyethylene preform;

quenching residual free radicals in the ultrahigh molecular weight polyethylene preform subsequent to the irradiating step; and

forming the ultrahigh molecular weight polyethylene preform into a prosthetic bearing.

131. **(Withdrawn)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

melting a polyethylene preform;

irradiating the polyethylene preform to crosslink the polyethylene preform;

quenching residual free radicals in the polyethylene preform after an irradiation; and

forming the polyethylene preform into a prosthetic bearing.

132. **(Withdrawn)** The method according to claim 128, wherein the polyethylene is ultrahigh molecular weight polyethylene.

133. **(Withdrawn)** A method for fabricating an orthopaedic implant prosthesis bearing comprising the steps of:

irradiating a polyethylene preform that has been melted, thereby crosslinking the polyethylene

quenching residual free radicals in the polyethylene preform after an irradiation;
and
forming the polyethylene preform into a prosthetic bearing.

134. **(Withdrawn)** The method according to claim 133, wherein the polyethylene is ultrahigh molecular weight polyethylene.